

DESIGN REVIEW DOCUMENTATION – RESULTS

Title: NCSX Soft X-Ray VV Spacer FDR (job no. 1203) _____ **WP#:** 1103 __ (ENG-032)

Type of Review: Peer CDR PDR FDR

Cog Individual: T. Brown _____ **Date of Review:** 2/14/06 _____

Review Board Members:

Invited attendees :

Chairperson L. Dudek _____	QA _____	P. Goranson (ORNL) _____
M. Cole (ORNL) _____	G. Gettelfinger _____	B. Nelson (ORNL) _____
P. Goranson _____	W. Reiersen _____	_____
F. Dahgren _____	D. Johnson _____	_____
J. Makiel (DOE) _____	I. Zatz _____	_____
Regulatory Compliance _____		

Items Reviewed:

Sat. **Unsat.**

Comments

Appropriate requirements identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Development plans and schedules	<input type="checkbox"/>	<input type="checkbox"/>	Not presented _____
Regulatory compliance including USQD and NEPA	<input type="checkbox"/>	<input type="checkbox"/>	Not presented _____
Disposition of CHITS from previous reviews	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cost objectives	<input type="checkbox"/>	<input type="checkbox"/>	Not Presented _____
Other review objectives addressed (attachment 4 of ENG-033)	<input type="checkbox"/>	<input type="checkbox"/>	_____

SUMMARY OF RESULTS: T. Brown presented the review material and the analysis was presented by F. Dahlgren. The analysis indicated the design was conservative with a factor of safety well over 2. The assembly analysis performed and presented indicated that 4 of the “cans” would interfere with modular coils during assembly. This was addressed in the design by leaving these four cans off the spool until after machine assembly. The most controversial part of the design was the tolerancing of the spool and cans to keep the cost down. After a long discussion on this topic it was decided that the vendor would be consulted on what was easily achievable and to suggest areas of relaxation of tolerances to keep fabrication costs down. Four chits were generated on the some details of the drawings and they were dispositioned after the meeting. This review was considered successful pending resolution of the chits.

Disposition: [check one]

_____ **Acceptable**

_____ **Acceptable pending resolution of concerns**- CHITS identified above must be resolved prior to installation.

_____ **Incomplete** - Additional design work is required prior to another design review.

Chairperson Signature: _____ **Date:** _____

Distribution: Review Board Members, Operations Center, Cognizant Design Engineer, System Engineer(s), Attendees, QA, ES&H